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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/607,923	06/27/2003	Helmut Bentivoglio	SCH-00069	8651
75	7590 09/21/2005		EXAMINER	
Warn, Burgess & Hoffmann, P.C.			NEGRON, ISMAEL	
P.O. Box 70098 Rochester Hills, MI 48307			ART UNIT	PAPER NUMBER
		-	2875	
		DATE MAILED: 09/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
	10/607,923	BENTIVOGLIO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ismael Negron	2875				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Au	iaust 2005					
	action is non-final.					
<del>/_</del>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
		0.0.2.0.				
Disposition of Claims						
4) Claim(s) 11-22 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	• —	atent Application (PTO-152)				
Paper No(s)/Mail Date 6) U Other:						

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

### Response to Amendment

2. Applicant's amendment filed on April 20, 2005 has been entered. No claim has been amended, or added. Claim 23 has been cancelled. Claims 11-22 are still pending in this application, with Claim 11 being independent.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 11-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over SCHULZ (U.S. Pat. 5,880,538) and DESMOND et al. (U.S. Pat. 5,820,245).

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4. SCHULZ discloses a switch having:

- at least one sensor (as recited in Claim 11), Figure 1, reference number 2;

- an evaluation electronics unit (as recited in Claim 11), as seen in Figure 1;
- the electronic unit being operably associated with the sensor (as recited in Claim 11), as evidenced by Figure 1;
- the electronics unit initiating at least one switching process (as recited in Claim 11), column 3, lines 5-11;
- the switching process being based on the approach of a non metallic object toward the sensor (as recited in Claim 11), column 4, lines 53-56;
- the electronics unit generates a turn-on signal from a first approach (as recited in Claim 12), as evidenced in column 4, lines 54-59;
- the electronics unit generates a turn-off signal from a second approach (as recited in Claim 12), as evidenced in column 4, lines 54-59;
- the sensor being provided with a preferred directivity (as
   recited in Claim 19), inherent, as any sensor has a given
   directivity;

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the sensor being provided with a sensitivity adjustment (as
 recited in Claim 20), as evidenced by Figure 1;

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- the sensitivity adjustment being used to set the length of the desired approach distance (as recited in Claim 20), inherent;
   and
- the electronics unit initiating the switching process based on the force-free touch of a non metallic object (as recited in Claim 21), as evidenced by column 4, lines 53-56.

## SCHULZ discloses all the limitations of the claims, except:

- a mirror housing of an automotive interior mirror module (as recited in Claim 11);
- the sensor being disposed in the mirror housing (as recited in Claim
  11);
- the electronic unit being disposed in the mirror housing (as recited in Claim 11);
- a reading lamp (as recited in Claim 13);
- the lamp being integrated in the housing (as recited in Claim 13);
- the lamp being turned on and off by the turn-on and turn-off signals
   (as recited in Claim 13);
- the automotive interior mirror module having a mirror base (as recited in Claim 14);

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the electronic unit being located in the mirror base (as recited in
 Claim 15);

- the electronic unit being an external unit located (as recited in
   Claim 16);
- the external unit being located externally from the mirror housing or
   the mirror base (as recited in Claim 16);
- the electronics unit being located in the housing (as recited in Claim
   17);
- the sensor being a sensor array (as recited in Claim 18); and
- the sensor being located in the lower corner region of the housing facing a driver (as recited in Claim 22).
- 5. DESMOND et al. discloses a vehicle illumination device having :
  - a mirror housing of an automotive interior mirror module (as
     recited in Claim 11), Figure 6, reference number 11;
  - a switch, Figure 10, reference numbers 27 and 29;
  - the switch being disposed in the mirror housing (as recited in
     Claim 11), column 4, lines 37-40;
  - an electronic unit disposed in the mirror housing (as recited in
     Claim 11), Figure 10, reference number 32;
  - a reading lamp (as recited in Claim 13), Figure 10, reference numbers 63 and 78;

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the lamp being integrated in the housing (as recited in Claim
 13), as seen in Figure 10;

- the lamp being turned on and off by the switch (as recited in Claim 13), column 4, lines 37-40;
- the automotive interior mirror module having a mirror base (as recited in Claim 14), Figure 6, reference number 17;
- the external unit being located externally from the mirror
   housing or the mirror base (as recited in Claim 16), as seen in
   Figure 6;
- the electronics unit being located in the housing (as recited in
   Claim 17), as seen in Figure 6; and
- the switch being located in the lower corner region of the housing facing a driver (as recited in Claim 22), as seen in Figure 1.
- 6. It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to combine the non-contact switch of SCHULZ and the vehicle illumination device of DESMOND et al. to equip such illumination device with a switch capable of being operated by the approaching hand of an user, as per the teachings of SCHULZ (see column 2, lines 24-29).
- 7. Regarding the electronic unit being located in the mirror base (as recited in Claim 15) or being an external unit (as recited in Claim 16), the applicant is advised that it has

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been held by the courts that rearranging parts of a prior art structure involves only routing skill in the art. *In re Japikse*, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950). In this case, DESMOND et al. discloses the electronics 32 as been located inside of the mirror housing 32, however, locating such circuit board outside the mirror housing 11 would have flown naturally to one of ordinary skill in the art as necessitated by the specific requirements of a particular application. In addition, it is noted that the instant application is silent not only as to the relevance of a particular location of the electronic unit, but also fails to even disclose such electronic unit locate anywhere else but inside the mirror housing.

8. Regarding the sensor being a sensor array (as recited in Claim 18), the applicant is advised that it has been held by the courts that mere duplication of essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. In this case, DESMOND et al. discloses a plurality of switches 27 and 29 for controlling the illumination of lamps 63 and 78. Using more than one of the switches of SCHULZ to independently control the lamps of DESMOND et al. would have flown naturally to one of ordinary skill in the art at the time the invention was made, with such plurality of sensors broadly considered a "sensor array".

#### Relevant Prior Art

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

**Guetersloh** (U.S. Pat. 3,829,850), **Murao** (U.S. Pat. 4,760,490) and **Pavatich et al**. (U.S. Pat. 6,429,782) disclose proximity switches, the switching process being based on the approach of a non-metallic object toward the sensor and generating a turn-on signal from a first approach and a turn-off signal from a second approach of the a non-metallic object.

# Response to Arguments

- 10. Applicant's arguments filed August 18, 2005 have been fully considered but they are not persuasive.
- 11. Regarding the Examiner's rejection of Claim 11 under 35 U.S.C. 103(a) as unpatentable over SCHULZ (U.S. Pat. 5,880,538) and DESMOND et al. (U.S. Pat. 5,820,245), the applicant argues that the proposed combination of references is not obvious since the references fail to suggest or provide motivation to combine them to obtain the claimed invention. The applicant presents an affidavit under 37 C.F.R. 1.132 by Mr.Volker Zipf (one of the instant applicants) alleging the proposed combination is not obvious.

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12. Regarding claims 12-22, the applicant present no additional arguments, except stating that such claims depend directly or indirectly from independent claim 11 and would be allowable when/if the independent claim is allowed.

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13. In response to applicant's argument that there is no suggestion to combine the references, the applicant is once again advised that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case. SCHULZ discloses a capacitance proximity switch which may be used as an actuating device for a variety on universal control applications (see column 1, lines 7-9). Applicant arguments characterizing the structure of SCHULZ as "a switch for exterior automotive applications" is not only unsupported, but clearly in error. One of ordinary skill in the art at the time the invention was made would have immediately recognize SCHULZ disclosure controlling windshield wipers and door locks as mere examples of the many application where the patented switch structure could be use, specially in light of SCHULZ disclosure (see columns 1 and 2, lines 44-67 and 1-33, respectively). Using the patented switch structure of SCHULZ would have flown naturally to one of ordinary skill in the art where activation of a circuit without actual physical contact was required or advantageous. SCHULZ even states such fact in column 2, lines 46-53.

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Using the switch of SCHULZ for switching the reading lamps of the patented vehicle device of DESMOND et al. would have been obvious to one of ordinary skill in the art to be able to operate such lamps without actually touching them, such feature being specifically advantageous in low ambient light conditions (when small conventional switches operative portions are hardly visible), or when the vehicle was in motion (when small conventional switches operative portions are difficult to target).

14. Regarding the affidavit under 37 C.F.R. 1.132, the applicant is advised that the affidavit filed August 18, 2005 is insufficient to overcome the rejection of Claim 11 under 35 U.S.C. 103(a) as unpatentable over SCHULZ (U.S. Pat. 5,880,538) and DESMOND et al. (U.S. Pat. 5,820,245) as set forth in the last Office action because: the affidavits merely provides a short summary of the disclosure of the cited references, and finally concludes that combining such references would not be obvious, without providing facts or any rationale for the non-obvious opinion. In addition, the affiant incorrectly characterizes the patented structure of SCHULZ as a switch for exterior vehicle applications.

#### Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 16. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ismael Negron whose telephone number is (703) 308-6086. The examiner can normally be reached on Monday-Friday from 9:00 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea, can be reached on (703) 305-4939. The facsimile machine number for the Art Group is (703) 308-7382.

18. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications maybe obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

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more information about the PAIR system, go to <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) toll-free at 866-217-9197.

September 16, 2005

THOMAS M. SEMBER PRIMARY EXAMINER